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states:(71) Applicant: **mitsubishi electric corp**(72) Inventor: **GOORABU MAJIYUMUDARU
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**(54) SHORT-CIRCUIT
PROTECTIVE CIRCUIT**

(57) Abstract:

PURPOSE: To reduce a whole circuit
by detecting an overcurrent without
using a current transformer or a
current shunt.

CONSTITUTION: A switching
element 1 for supplying a current to a
load is controlled by a driver 2. When
an overcurrent flows to the element 1,
a high side voltage of the element 1 is

abnormally raised. This voltage is applied to a voltage detector 3, and a voltage is generated across a resistor 7 by the current. This voltage is compared by a voltage comparator 4 with the voltage of a reference voltage source 5. If it exceeds it, the comparator 4 feeds a signal to a driver controller 6 to turn it ON, thereby reducing the high side voltage of a resistor 13 to turn OFF a driving transistor 12. Thus, the driving signal of the switching element is interrupted.

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